

Luciano Da F Costa

List of Publications by Citations

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231
papers

5,288
citations

37
h-index

64
g-index

247
ext. papers

6,311
ext. citations

3.8
avg, IF

5.84
L-index

#	Paper	IF	Citations
231	Analyzing and modeling real-world phenomena with complex networks: a survey of applications. <i>Advances in Physics</i> , 2011 , 60, 329-412	18.4	422
230	Mechanosensing is critical for axon growth in the developing brain. <i>Nature Neuroscience</i> , 2016 , 19, 1592-1598	15.98	297
229	2D Euclidean distance transform algorithms. <i>ACM Computing Surveys</i> , 2008 , 40, 1-44	13.4	274
228	Clustering algorithms: A comparative approach. <i>PLoS ONE</i> , 2019 , 14, e0210236	3.7	149
227	High-resolution episcopic microscopy: a rapid technique for high detailed 3D analysis of gene activity in the context of tissue architecture and morphology. <i>Anatomy and Embryology</i> , 2006 , 211, 213-21		125
226	A systematic comparison of supervised classifiers. <i>PLoS ONE</i> , 2014 , 9, e94137	3.7	119
225	Mitochondrial network size scaling in budding yeast. <i>Science</i> , 2012 , 338, 822-4	33.3	114
224	Identifying the starting point of a spreading process in complex networks. <i>Physical Review E</i> , 2011 , 84, 056105	2.4	113
223	A texture approach to leukocyte recognition. <i>Real Time Imaging</i> , 2004 , 10, 205-216		99
222	Studies of aberrant phyllotaxy1 mutants of maize indicate complex interactions between auxin and cytokinin signaling in the shoot apical meristem. <i>Plant Physiology</i> , 2009 , 150, 205-16	6.6	92
221	Role of centrality for the identification of influential spreaders in complex networks. <i>Physical Review E</i> , 2014 , 90, 032812	2.4	91
220	Rich-club phenomenon across complex network hierarchies. <i>Applied Physics Letters</i> , 2007 , 91, 084103	3.4	91
219	Mechanosensitivity of astrocytes on optimized polyacrylamide gels analyzed by quantitative morphometry. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 194114	1.8	86
218	Sensory-related neural activity regulates the structure of vascular networks in the cerebral cortex. <i>Neuron</i> , 2014 , 83, 1117-30	13.9	83
217	Keystone species in seed dispersal networks are mainly determined by dietary specialization. <i>Oikos</i> , 2015 , 124, 1031-1039	4	79
216	A complex network approach to text summarization. <i>Information Sciences</i> , 2009 , 179, 584-599	7.7	71
215	Using network science and text analytics to produce surveys in a scientific topic. <i>Journal of Informetrics</i> , 2016 , 10, 487-502	3.1	69

214	Urban Street Networks, a Comparative Analysis of Ten European Cities. <i>Environment and Planning B: Planning and Design</i> , 2013 , 40, 1071-1086		61
213	Predicting the connectivity of primate cortical networks from topological and spatial node properties. <i>BMC Systems Biology</i> , 2007 , 1, 16	3.5	58
212	Complex networks: the key to systems biology. <i>Genetics and Molecular Biology</i> , 2008 , 31, 591-601	2	53
211	Gene expression noise in spatial patterning: hunchback promoter structure affects noise amplitude and distribution in Drosophila segmentation. <i>PLoS Computational Biology</i> , 2011 , 7, e1001069	5	52
210	The hierarchical backbone of complex networks. <i>Physical Review Letters</i> , 2004 , 93, 098702	7.4	52
209	Exploring complex networks through random walks. <i>Physical Review E</i> , 2007 , 75, 016102	2.4	51
208	Hierarchical Characterization of Complex Networks. <i>Journal of Statistical Physics</i> , 2006 , 125, 841-872	1.5	47
207	The structure and resilience of financial market networks. <i>Chaos</i> , 2012 , 22, 013117	3.3	46
206	Automatic characterization and classification of ganglion cells from the salamander retina. <i>Journal of Comparative Neurology</i> , 1999 , 404, 33-51	3.4	46
205	Biological shape characterization for automatic image recognition and diagnosis of protozoan parasites of the genus Eimeria. <i>Pattern Recognition</i> , 2007 , 40, 1899-1910	7.7	44
204	Modifier of cell adhesion regulates N-cadherin-mediated cell-cell adhesion and neurite outgrowth. <i>Journal of Neuroscience</i> , 2005 , 25, 281-90	6.6	43
203	Using complex networks for text classification: Discriminating informative and imaginative documents. <i>Europhysics Letters</i> , 2016 , 113, 28007	1.6	42
202	An entropy-based approach to automatic image segmentation of satellite images. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011 , 390, 512-518	3.3	41
201	Structure- semantics interplay in complex networks and its effects on the predictability of similarity in texts. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 4406-4419	3.3	40
200	Patterns of authors contribution in scientific manuscripts. <i>Journal of Informetrics</i> , 2017 , 11, 498-510	3.1	39
199	Extractive summarization using complex networks and syntactic dependency. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 1855-1864	3.3	39
198	Approximate von Neumann entropy for directed graphs. <i>Physical Review E</i> , 2014 , 89, 052804	2.4	38
197	Knowledge acquisition: A Complex networks approach. <i>Information Sciences</i> , 2017 , 421, 154-166	7.7	38

196	Probing the statistical properties of unknown texts: application to the Voynich Manuscript. <i>PLoS ONE</i> , 2013 , 8, e67310	3.7	38
195	On time-varying collaboration networks. <i>Journal of Informetrics</i> , 2013 , 7, 371-378	3.1	37
194	COMPLEX NETWORKS ANALYSIS OF MANUAL AND MACHINE TRANSLATIONS. <i>International Journal of Modern Physics C</i> , 2008 , 19, 583-598	1.1	37
193	A comparison of morphometric characteristics of sperm from fertile Bos taurus and Bos indicus bulls in Brazil. <i>Animal Reproduction Science</i> , 2005 , 85, 105-16	2.1	37
192	Entropy of weighted recurrence plots. <i>Physical Review E</i> , 2014 , 90, 042919	2.4	36
191	Application and assessment of multiscale bending energy for morphometric characterization of neural cells. <i>Review of Scientific Instruments</i> , 1997 , 68, 2177-2186	1.7	36
190	A shape analysis framework for neuromorphometry		36
189	Three-feature model to reproduce the topology of citation networks and the effects from authors' visibility on their h-index. <i>Journal of Informetrics</i> , 2012 , 6, 427-434	3.1	35
188	Quantifying the interdisciplinarity of scientific journals and fields. <i>Journal of Informetrics</i> , 2013 , 7, 469-477	3.1	35
187	Comparing intermittency and network measurements of words and their dependence on authorship. <i>New Journal of Physics</i> , 2011 , 13, 123024	2.9	35
186	Epithelial organisation revealed by a network of cellular contacts. <i>Nature Communications</i> , 2011 , 2, 526	17.4	33
185	Identification of literary movements using complex networks to represent texts. <i>New Journal of Physics</i> , 2012 , 14, 043029	2.9	33
184	Towards effective planar shape representation with multiscale digital curvature analysis based on signal processing techniques. <i>Pattern Recognition</i> , 1996 , 29, 1559-1569	7.7	33
183	Concentric network symmetry grasps authors' styles in word adjacency networks. <i>Europhysics Letters</i> , 2015 , 110, 68001	1.6	32
182	Estimating complex cortical networks via surface recordings- a critical note. <i>NeuroImage</i> , 2010 , 53, 439-449	4.9	31
181	Gene expression complex networks: synthesis, identification, and analysis. <i>Journal of Computational Biology</i> , 2011 , 18, 1353-67	1.7	31
180	The web of connections between tourism companies: Structure and dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009 , 388, 4286-4296	3.3	31
179	Spread of opinions and proportional voting. <i>Physical Review E</i> , 2006 , 74, 036112	2.4	31

178	Regulation of radial glial motility by visual experience. <i>Journal of Neuroscience</i> , 2009 , 29, 14066-76	6.6	30
177	Unveiling the relationship between complex networks metrics and word senses. <i>Europhysics Letters</i> , 2012 , 98, 18002	1.6	30
176	Unveiling the neuromorphological space. <i>Frontiers in Computational Neuroscience</i> , 2010 , 4, 150	3.5	29
175	Complex networks analysis of language complexity. <i>Europhysics Letters</i> , 2012 , 100, 58002	1.6	29
174	Correlations between structure and random walk dynamics in directed complex networks. <i>Applied Physics Letters</i> , 2007 , 91, 054107	3.4	29
173	On the use of topological features and hierarchical characterization for disambiguating names in collaborative networks. <i>Europhysics Letters</i> , 2012 , 99, 48002	1.6	28
172	Morphometric differences in a single wing cell can discriminate <i>Apis mellifera</i> racial types. <i>Apidologie</i> , 2006 , 37, 91-97	2.3	25
171	Vascular contributions to 16p11.2 deletion autism syndrome modeled in mice. <i>Nature Neuroscience</i> , 2020 , 23, 1090-1101	25.5	25
170	Thermodynamic characterization of networks using graph polynomials. <i>Physical Review E</i> , 2015 , 92, 032810	2.1	24
169	Multiple pathways analysis of brain functional networks from EEG signals: an application to real data. <i>Brain Topography</i> , 2011 , 23, 344-54	4.3	23
168	Neural cell classification by wavelets and multiscale curvature. <i>Biological Cybernetics</i> , 1998 , 79, 347-60	2.8	23
167	Border detection in complex networks. <i>New Journal of Physics</i> , 2009 , 11, 063019	2.9	22
166	Complex systems: Features, similarity and connectivity. <i>Physics Reports</i> , 2020 , 861, 1-41	27.7	21
165	Topological-collaborative approach for disambiguating authors' names in collaborative networks. <i>Scientometrics</i> , 2015 , 102, 465-485	3	20
164	The α PKC-CBP Pathway Regulates Post-stroke Neurovascular Remodeling and Functional Recovery. <i>Stem Cell Reports</i> , 2017 , 9, 1735-1744	8	20
163	Complex network analysis of CA3 transcriptome reveals pathogenic and compensatory pathways in refractory temporal lobe epilepsy. <i>PLoS ONE</i> , 2013 , 8, e79913	3.7	20
162	Effective number of accessed nodes in complex networks. <i>Physical Review E</i> , 2012 , 85, 036105	2.4	20
161	Characterizing polygonality in biological structures. <i>Physical Review E</i> , 2006 , 73, 011913	2.4	20

160	Self-referred approach to lacunarity. <i>Physical Review E</i> , 2005 , 72, 016707	2.4	19
159	A binary Hough transform and its efficient implementation in a systolic array architecture. <i>Pattern Recognition Letters</i> , 1989 , 10, 329-334	4.7	19
158	Rumor propagation with heterogeneous transmission in social networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017 , 2017, 023401	1.9	18
157	Modularity and robustness of bone networks. <i>Molecular BioSystems</i> , 2009 , 5, 255-61		18
156	Learning about knowledge: a complex network approach. <i>Physical Review E</i> , 2006 , 74, 026103	2.4	18
155	What are the best concentric descriptors for complex networks?. <i>New Journal of Physics</i> , 2007 , 9, 311-311.9		18
154	Predicting epidemic outbreak from individual features of the spreaders. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012 , 2012, P07005	1.9	17
153	Reinforcing the resilience of complex networks. <i>Physical Review E</i> , 2004 , 69, 066127	2.4	17
152	Concentric characterization and classification of complex network nodes: Application to an institutional collaboration network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008 , 387, 6201-6214	2.3	16
151	A percolation approach to neural morphometry and connectivity. <i>Neuroinformatics</i> , 2003 , 1, 65-80	3.2	16
150	Associative recall in non-randomly diluted neuronal networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003 , 330, 37-45	3.3	16
149	Robust Skeletonization through Exact Euclidean Distance Transform and its Application to Neuromorphometry. <i>Real Time Imaging</i> , 2000 , 6, 415-431		16
148	A complex networks approach for data clustering. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 6174-6183	3.3	15
147	Computer-vision-based extraction of neural dendrograms. <i>Journal of Neuroscience Methods</i> , 1999 , 93, 121-31	3	15
146	Modular transcriptional repertoire and MicroRNA target analyses characterize genomic dysregulation in the thymus of Down syndrome infants. <i>Oncotarget</i> , 2016 , 7, 7497-533	3.3	15
145	Representation of texts as complex networks: a mesoscopic approach. <i>Journal of Complex Networks</i> , 2018 , 6, 125-144	1.7	14
144	Texture recognition based on diffusion in networks. <i>Information Sciences</i> , 2016 , 364-365, 51-71	7.7	14
143	Complexity and anisotropy in host morphology make populations less susceptible to epidemic outbreaks. <i>Journal of the Royal Society Interface</i> , 2010 , 7, 1083-92	4.1	14

142	Objective characterization of the course of the parasellar internal carotid artery using mathematical tools. <i>Surgical and Radiologic Anatomy</i> , 2008 , 30, 519-26	1.4	14
141	1D and 2D Fourier-based approaches to numeric curvature estimation and their comparative performance assessment 2003 , 13, 172-197		14
140	Neuromorphometric characterization with shape functionals. <i>Physical Review E</i> , 2003 , 67, 061910	2.4	14
139	Temporal modulation of collective cell behavior controls vascular network topology. <i>ELife</i> , 2016 , 5,	8.9	14
138	Modeling worldwide highway networks. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 374, 22-27	2.3	13
137	Chain motifs: the tails and handles of complex networks. <i>Physical Review E</i> , 2008 , 77, 026106	2.4	13
136	A spectral framework for sperm shape characterization. <i>Computers in Biology and Medicine</i> , 2005 , 35, 463-473	7	13
135	Piecewise Linear Segmentation of Digital Contours in $O(N \cdot \log(N))$ Through a Technique Based on Effective Digital Curvature Estimation. <i>Real Time Imaging</i> , 1995 , 1, 409-417		13
134	Automatic network fingerprinting through single-node motifs. <i>PLoS ONE</i> , 2011 , 6, e15765	3.7	13
133	Complex channel networks of bone structure. <i>Applied Physics Letters</i> , 2006 , 88, 033903	3.4	12
132	L-percolations of complex networks. <i>Physical Review E</i> , 2004 , 70, 056106	2.4	12
131	Analysis of Scanning Electron Microscopy Images To Investigate Adsorption Processes Responsible for Detection of Cancer Biomarkers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5885-5890	9.5	11
130	Automated high-content morphological analysis of muscle fiber histology. <i>Computers in Biology and Medicine</i> , 2015 , 63, 28-35	7	11
129	Community structure analysis of transcriptional networks reveals distinct molecular pathways for early- and late-onset temporal lobe epilepsy with childhood febrile seizures. <i>PLoS ONE</i> , 2015 , 10, e0128174	3.7	11
128	Communication structure of cortical networks. <i>Frontiers in Computational Neuroscience</i> , 2011 , 5, 6	3.5	11
127	Musical genres: beating to the rhythms of different drums. <i>New Journal of Physics</i> , 2010 , 12, 053030	2.9	11
126	Protein lethality investigated in terms of long range dynamical interactions. <i>Molecular BioSystems</i> , 2009 , 5, 385-90		11
125	Correlating thalamocortical connectivity and activity. <i>Applied Physics Letters</i> , 2006 , 89, 013903	3.4	11

124	Computer vision based morphometric characterization of neural cells. <i>Review of Scientific Instruments</i> , 1995 , 66, 3770-3773	1.7	11
123	Fast long-range connections in transportation networks. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 1626-1629	2.3	10
122	Voronoi analysis uncovers relationship between mosaics of normally placed and displaced amacrine cells in the thraira retina. <i>Neuroinformatics</i> , 2007 , 5, 59-78	3.2	10
121	A parallel implementation of exact Euclidean distance transform based on exact dilations. <i>Microprocessors and Microsystems</i> , 2004 , 28, 107-113	2.4	10
120	Topic segmentation via community detection in complex networks. <i>Chaos</i> , 2016 , 26, 063120	3.3	10
119	Effects of threshold on the topology of gene co-expression networks. <i>Molecular BioSystems</i> , 2017 , 13, 2024-2035		9
118	Structure and dynamics of functional networks in child-onset schizophrenia. <i>Clinical Neurophysiology</i> , 2014 , 125, 1589-95	4.3	9
117	Morphological homogeneity of neurons: searching for outlier neuronal cells. <i>Neuroinformatics</i> , 2012 , 10, 379-89	3.2	9
116	Identifying the borders of mathematical knowledge. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010 , 43, 325202	2	9
115	Resilience of protein-protein interaction networks as determined by their large-scale topological features. <i>Molecular BioSystems</i> , 2011 , 7, 1263-9		9
114	Three-dimensional description and mathematical characterization of the parasellar internal carotid artery in human infants. <i>Journal of Anatomy</i> , 2008 , 212, 636-44	2.9	9
113	Border trees of complex networks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 224005 2		9
112	Realistic neuromorphic models and their application to neural reorganization simulations. <i>Neurocomputing</i> , 2002 , 48, 555-571	5.4	9
111	An integrated approach to the characterization of cell movement. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2005 , 68, 92-100	4.6	9
110	Statistical physics approach to quantifying differences in myelinated nerve fibers. <i>Scientific Reports</i> , 2014 , 4, 4511	4.9	8
109	Extensive cross-talk and global regulators identified from an analysis of the integrated transcriptional and signaling network in Escherichia coli. <i>Molecular BioSystems</i> , 2012 , 8, 3028-35		8
108	Characterization of subgraph relationships and distribution in complex networks. <i>New Journal of Physics</i> , 2009 , 11, 013058	2.9	8
107	Pattern formation in a gene network model with boundary shape dependence. <i>Physical Review E</i> , 2006 , 73, 031917	2.4	8

106	Morphological Hopfield Networks. <i>Brain and Mind</i> , 2003 , 4, 91-105		8
105	Accessibility in networks: A useful measure for understanding social insect nest architecture. <i>Chaos, Solitons and Fractals</i> , 2013 , 46, 38-45	9.3	7
104	A structure-dynamic approach to cortical organization: number of paths and accessibility. <i>Journal of Neuroscience Methods</i> , 2009 , 183, 57-62	3	7
103	Performance Improvement of Tomographic Image Reconstruction Based on DSP Processors. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2009 , 58, 3295-3304	5.2	7
102	A new method for quantifying three-dimensional interactions between biological structures. <i>Journal of Anatomy</i> , 2007 , 210, 221-31	2.9	7
101	Topographical maps as complex networks. <i>Physical Review E</i> , 2005 , 71, 021901	2.4	7
100	SZNAJD COMPLEX NETWORKS. <i>International Journal of Modern Physics C</i> , 2005 , 16, 1001-1016	1.1	7
99	Particle Systems Analysis by Using Skeletonization and Exact Dilations. <i>Particle and Particle Systems Characterization</i> , 1999 , 16, 273-277	3.1	7
98	AGN Simulation and Validation Model. <i>Lecture Notes in Computer Science</i> , 2008 , 169-173	0.9	7
97	A Biologically-Motivated Approach to Image Representation and Its Application to Neuromorphology. <i>Lecture Notes in Computer Science</i> , 2000 , 407-416	0.9	7
96	Concentric network symmetry. <i>Information Sciences</i> , 2016 , 333, 61-80	7.7	6
95	The dynamics of knowledge acquisition via self-learning in complex networks. <i>Chaos</i> , 2018 , 28, 083106	3.3	6
94	Generalized connectivity between any two nodes in a complex network. <i>Physical Review E</i> , 2010 , 81, 036113	1.3	6
93	Analyzing trails in complex networks. <i>Physical Review E</i> , 2007 , 76, 046106	2.4	6
92	ACTIVE PERCOLATION ANALYSIS OF PYRAMIDAL NEURONS OF SOMATOSENSORY CORTEX: A COMPARISON OF WILD TYPE AND p21H-RasVal12 TRANSGENIC MICE. <i>International Journal of Modern Physics C</i> , 2005 , 16, 655-667	1.1	6
91	Connecting network science and information theory. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 515, 641-648	3.3	6
90	Minimal paths between communities induced by geographical networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016 , 2016, 023403	1.9	5
89	Shape, connectedness and dynamics in neuronal networks. <i>Journal of Neuroscience Methods</i> , 2013 , 220, 100-15	3	5

88	The relationship between structure and function in locally observed complex networks. <i>New Journal of Physics</i> , 2013 , 15, 013048	2.9	5
87	Signal propagation in cortical networks: a digital signal processing approach. <i>Frontiers in Neuroinformatics</i> , 2009 , 3, 24	3.9	5
86	Connectivity and dynamics of neuronal networks as defined by the shape of individual neurons. <i>New Journal of Physics</i> , 2009 , 11, 103053	2.9	5
85	Entropy-Based Approach to Analyze and Classify Mineral Aggregates. <i>Journal of Computing in Civil Engineering</i> , 2011 , 25, 75-84	5	5
84	Characterizing topological and dynamical properties of complex networks without border effects. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010 , 389, 1771-1778	3.3	5
83	Using Complex Networks for Language Processing: The Case of Summary Evaluation 2006 ,		5
82	Estimating derivatives and curvature of open curves. <i>Pattern Recognition</i> , 2002 , 35, 2445-2451	7.7	5
81	Statistical mechanics characterization of neuronal mosaics. <i>Applied Physics Letters</i> , 2005 , 86, 093901	3.4	5
80	Optimized approach to multiscale skeleton generation. <i>Optical Engineering</i> , 2001 , 40, 1752	1.1	5
79	Bioinformatics: perspectives for the future. <i>Genetics and Molecular Research</i> , 2004 , 3, 564-74	1.2	5
78	An image processing approach to analyze morphological features of microscopic images of muscle fibers. <i>Computerized Medical Imaging and Graphics</i> , 2014 , 38, 803-14	7.6	4
77	A quantitative approach to evolution of music and philosophy. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012 , 2012, P08010	1.9	4
76	Hierarchical spatial organization of geographical networks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 224004	2	4
75	Fast and accurate nonlinear spectral method for image recognition and registration. <i>Applied Physics Letters</i> , 2006 , 89, 174102	3.4	4
74	DIVERSITY OF CORTICAL STATES AT NONEQUILIBRIUM SIMULATED BY THE ANTI-FERROMAGNETIC ISING MODEL UNDER METROPOLIS DYNAMICS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007 , 17, 2387-2398	2	4
73	Biological shape analysis by digital curvature. <i>Pattern Recognition</i> , 2004 , 37, 515-524	7.7	4
72	Nuclear morphometry of neoplastic cells as a method for diagnosis of histiocytoma, mastocytoma and transmissible venereal tumor in dogs. <i>Real Time Imaging</i> , 2004 , 10, 197-204		4
71	STRENGTH DISTRIBUTION IN DERIVATIVE NETWORKS. <i>International Journal of Modern Physics C</i> , 2005 , 16, 1097-1105	1.1	4

70	Statistical characterization of morphological features of layer-by-layer polymer films by image analysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2003 , 3, 257-61	1.3	4
69	A biochemical network modeling of a whole-cell. <i>Scientific Reports</i> , 2020 , 10, 13303	4.9	4
68	Spacing ratio characterization of the spectra of directed random networks. <i>Physical Review E</i> , 2020 , 102, 062305	2.4	4
67	How integrated are theoretical and applied physics?. <i>Scientometrics</i> , 2018 , 116, 1113-1121	3	4
66	Modeling and Evaluating Summaries Using Complex Networks. <i>Lecture Notes in Computer Science</i> , 2006 , 1-10	0.9	4
65	Texture Discrimination Using Hierarchical Complex Networks 2008 , 95-102		4
64	A framework for analyzing the relationship between gene expression and morphological, topological, and dynamical patterns in neuronal networks. <i>Journal of Neuroscience Methods</i> , 2015 , 245, 1-14	3	3
63	A quantitative approach to painting styles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015 , 417, 110-129	3.3	3
62	An image analysis approach to text analytics based on complex networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 510, 110-120	3.3	3
61	Morphological Neuron Classification Based on Dendritic Tree Hierarchy. <i>Neuroinformatics</i> , 2019 , 17, 147-161	3.1	3
60	Random walks in directed modular networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P12003	1.9	3
59	Jararhagin, a snake venom metalloprotease-disintegrin, activates the Rac1 GTPase and stimulates neurite outgrowth in neuroblastoma cells. <i>Toxicon</i> , 2008 , 52, 380-4	2.8	3
58	ON THE EFFECTS OF GEOGRAPHICAL CONSTRAINTS ON TASK EXECUTION IN COMPLEX NETWORKS. <i>International Journal of Modern Physics C</i> , 2008 , 19, 847-853	1.1	3
57	Enhanced multiscale skeletons. <i>Real Time Imaging</i> , 2003 , 9, 315-319		3
56	Parallel implementation of exact dilations and multi-scale skeletonization. <i>Real Time Imaging</i> , 2003 , 9, 163-169		3
55	Biological sequence analysis through the one-dimensional percolation transform and its enhanced version. <i>Bioinformatics</i> , 2005 , 21, 608-16	7.2	3
54	Semiautomated analysis of clay samples. <i>Review of Scientific Instruments</i> , 1991 , 62, 2163-2166	1.7	3
53	Characterization and comparison of large directed networks through the spectra of the magnetic Laplacian. <i>Chaos</i> , 2020 , 30, 073141	3.3	3

52	Straight Line Detection as an Optimization Problem: An Approach Motivated by the Jumping Spider Visual System. <i>Lecture Notes in Computer Science</i> , 2000 , 32-41	0.9	3
51	A framework for evaluating complex networks measurements. <i>Europhysics Letters</i> , 2015 , 110, 68002	1.6	2
50	Hyperfiltration in ubiquitin C-terminal hydrolase L1-deleted mice. <i>Clinical Science</i> , 2018 , 132, 1453-1470	6.5	2
49	Topology and dynamics in complex networks: The role of edge reciprocity. <i>Europhysics Letters</i> , 2018 , 122, 26001	1.6	2
48	Study of cerebral gene expression densities using Voronoi analysis. <i>Journal of Neuroscience Methods</i> , 2012 , 203, 212-9	3	2
47	Opinion Discrimination Using Complex Network Features. <i>Communications in Computer and Information Science</i> , 2011 , 154-162	0.3	2
46	STRUCTURE AND DYNAMICS: THE TRANSITION FROM NONEQUILIBRIUM TO EQUILIBRIUM IN INTEGRATE-AND-FIRE DYNAMICS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250174	2	2
45	Comparison of the interactomic networks of different species in terms of accessibility. <i>Molecular BioSystems</i> , 2010 , 6, 234-40		2
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